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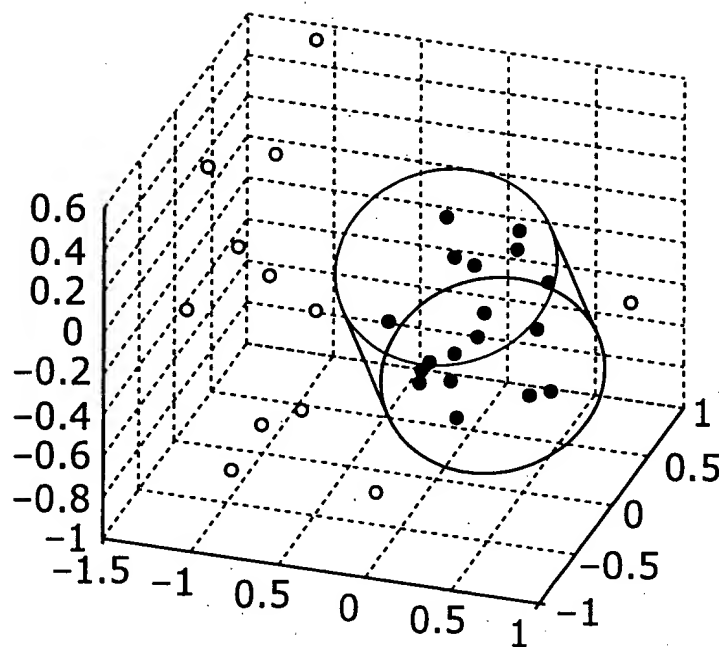


FIG. 1B

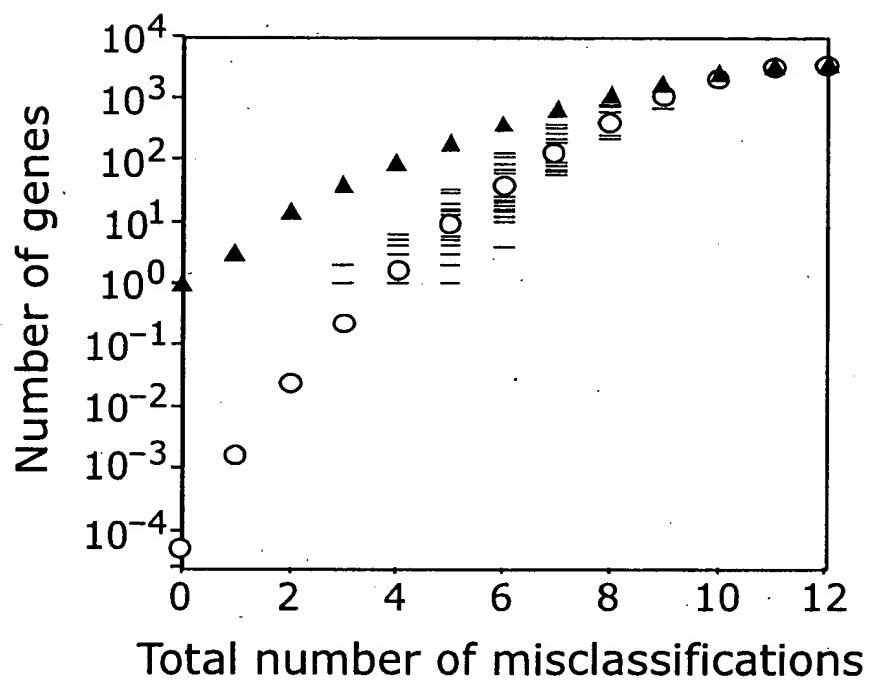


FIG. 1C

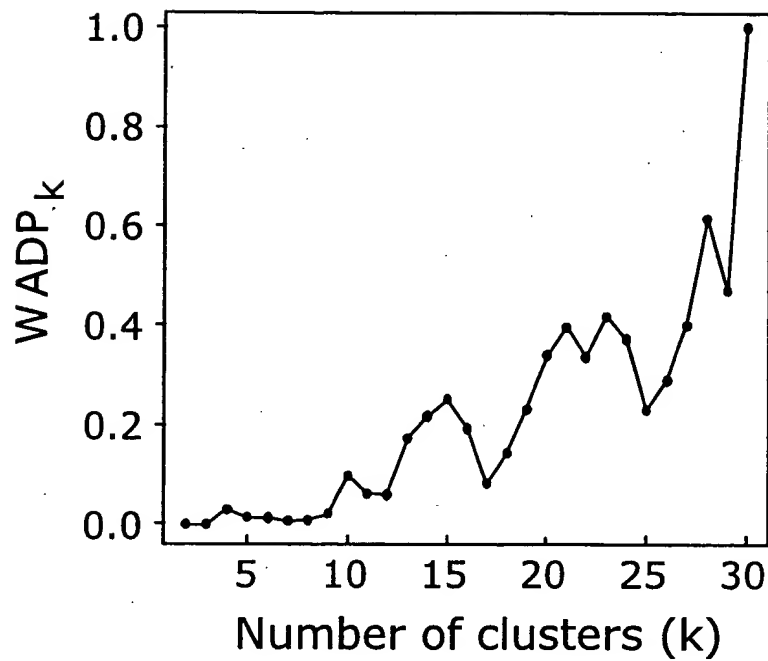


FIG. 1D

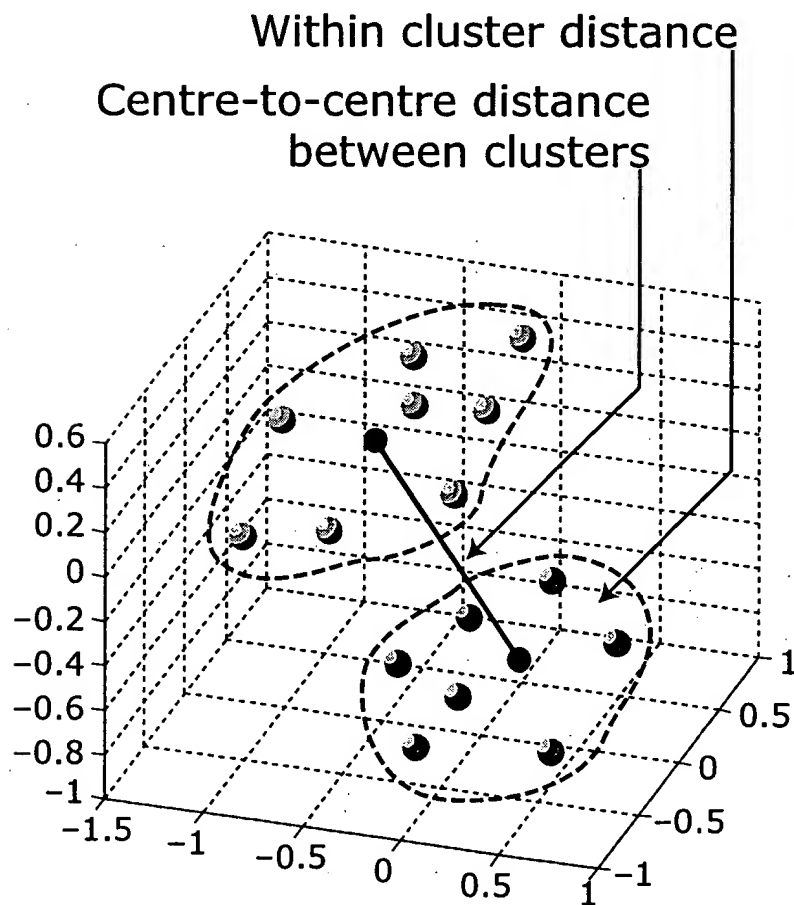


FIG. 2A

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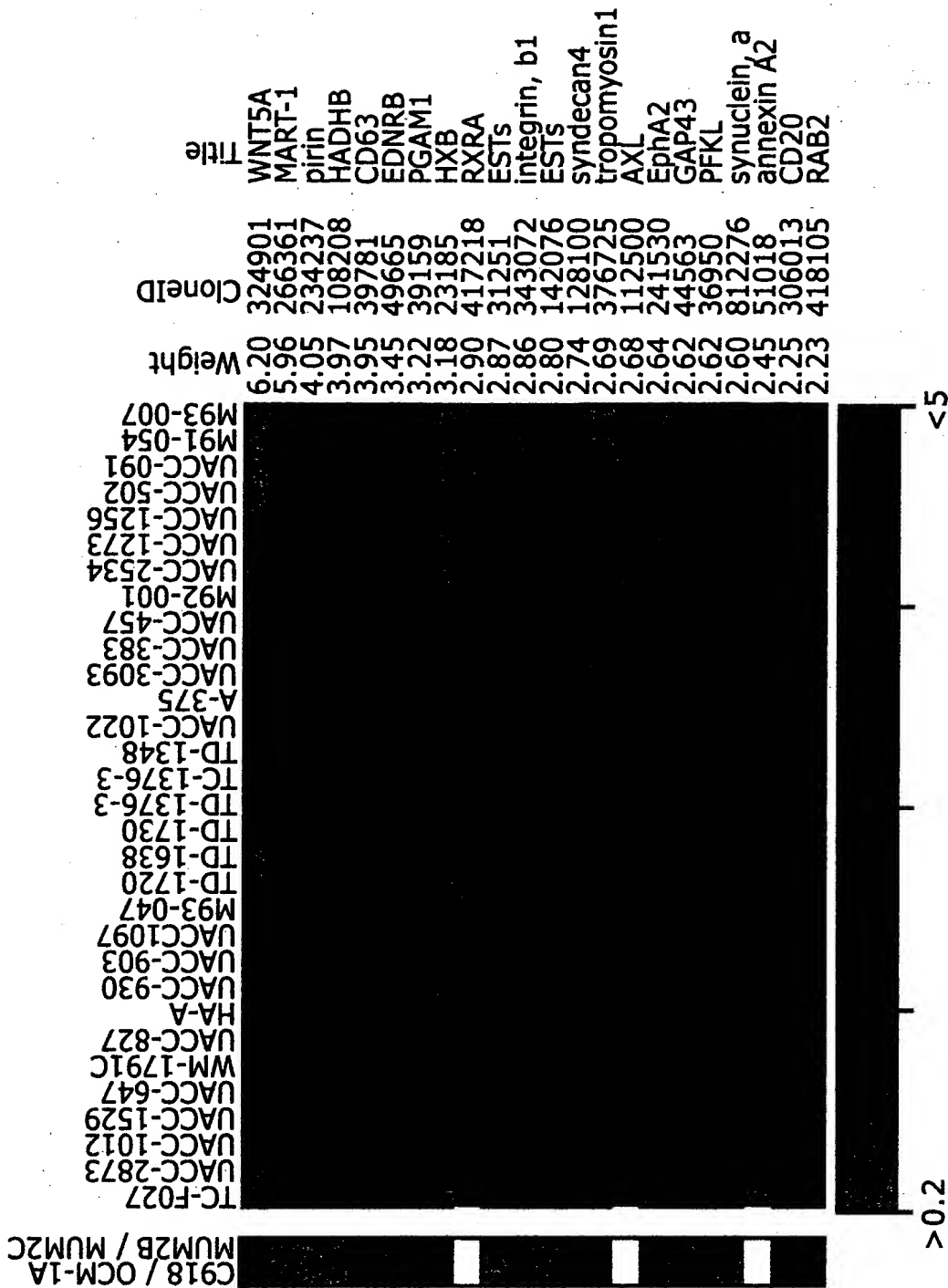


FIG. 2B

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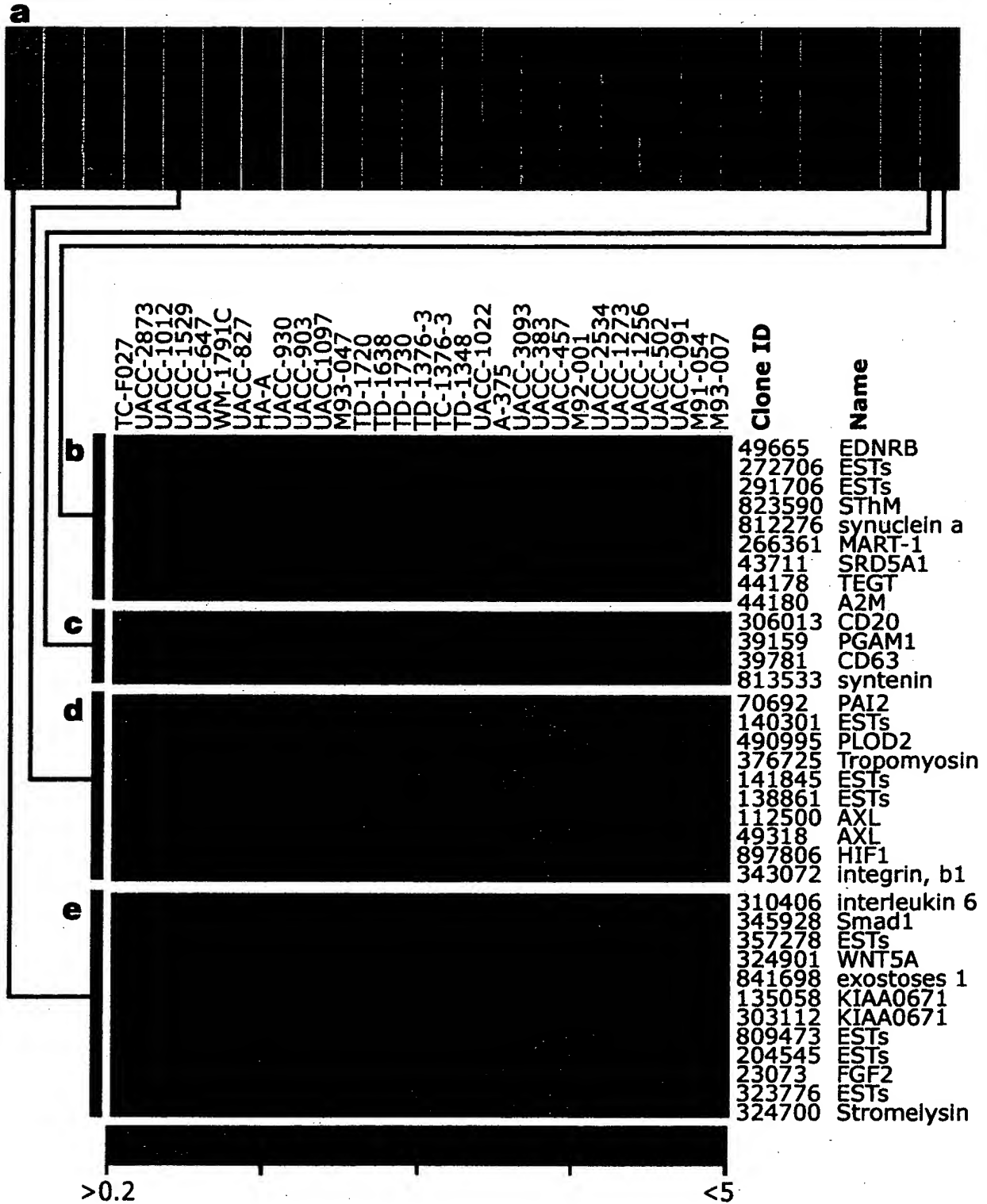


FIG. 3

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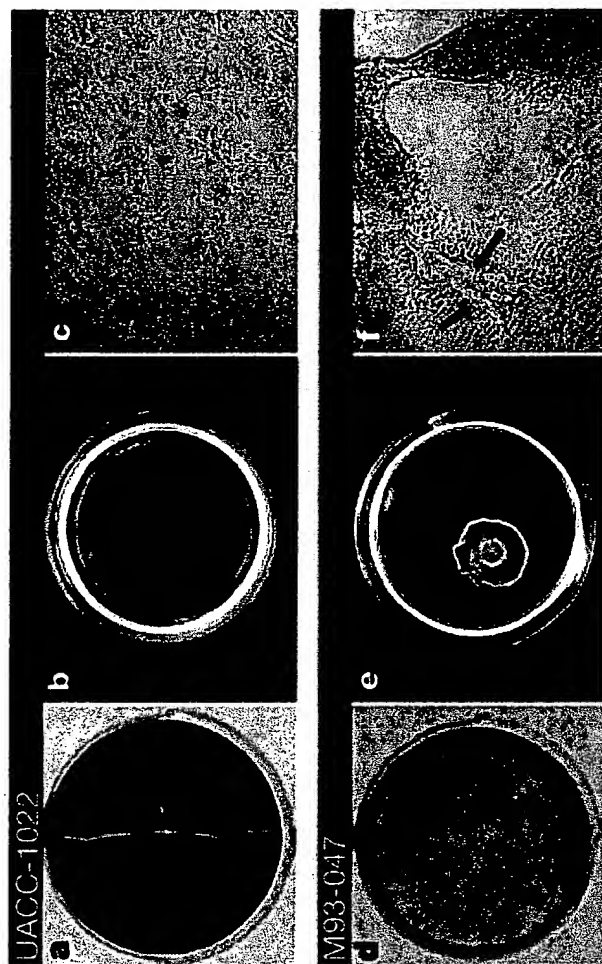


FIG. 4

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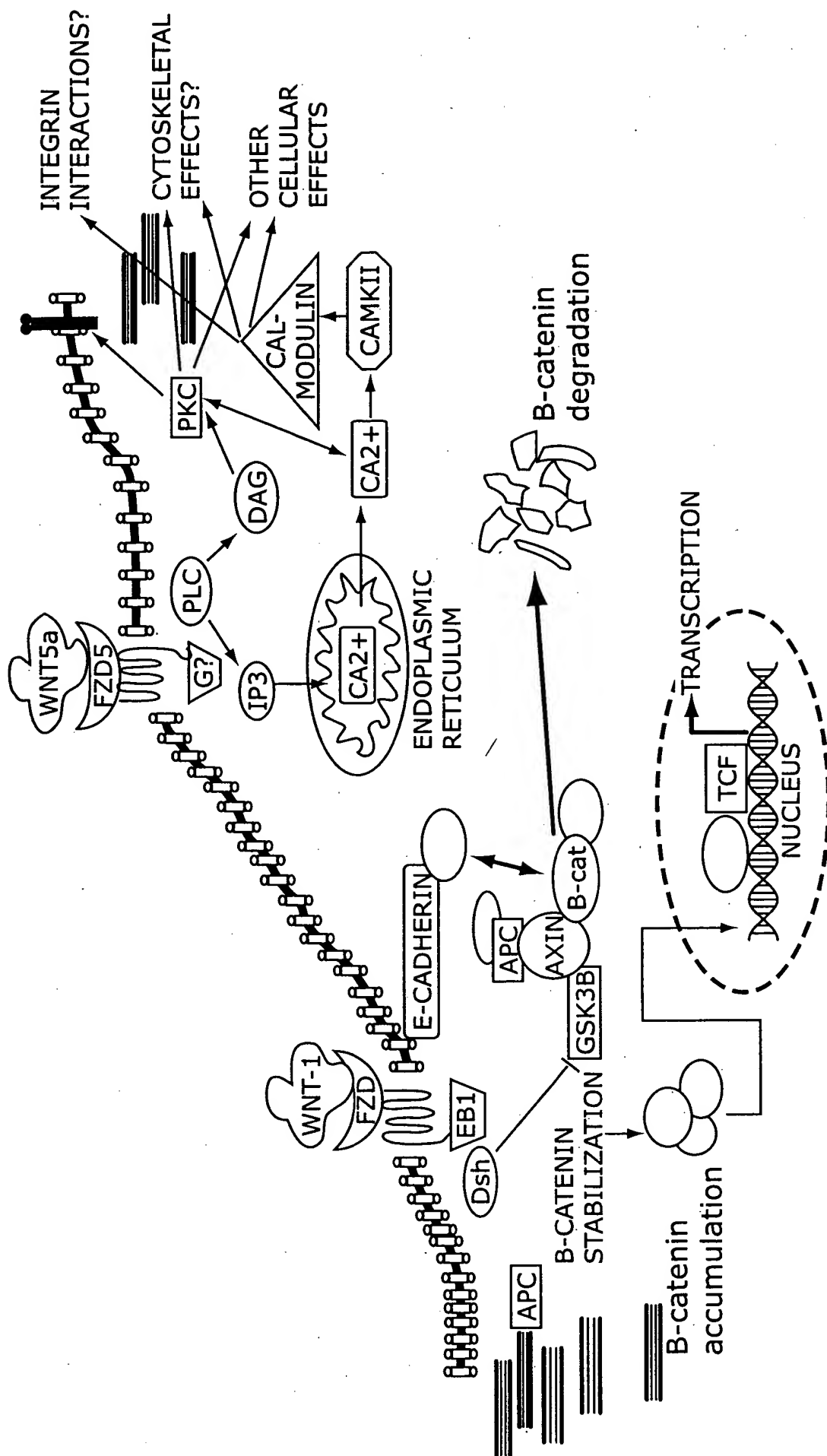


FIG. 5

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REAL-TIME PCR OF WNT5A EXPRESSION

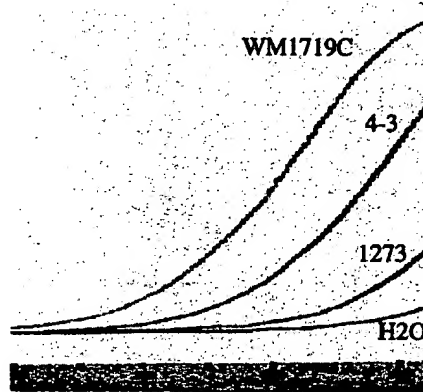


FIG. 6A

WNT5A PROTEIN EXPRESSION

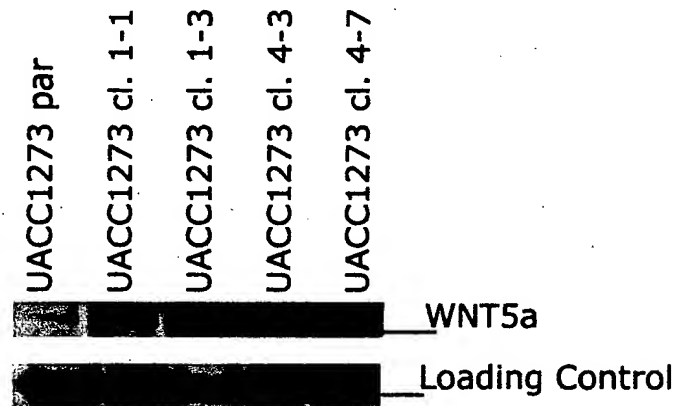
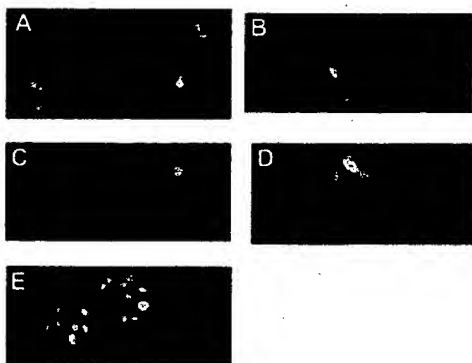


FIG. 6B



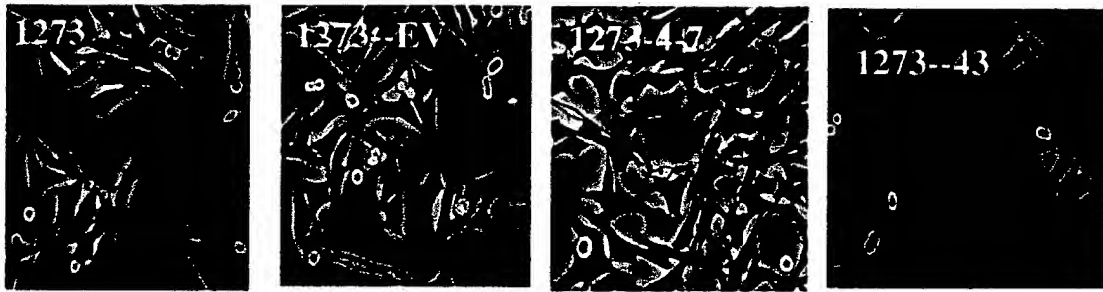
WNT5A antibody staining of transfected cell lines.

- A. Antibody negative control
- B. Parental cell line (untransfected)
- C. Transfectant 1-3
- D. Transfectant 4-3
- E. Transfectant 4-7

R&D systems anti WNT5a (goat IgG) developed with Cy5 rabbit anti-goat.

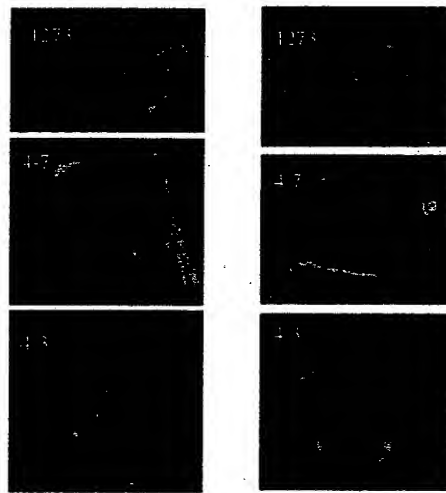
FIG. 6C

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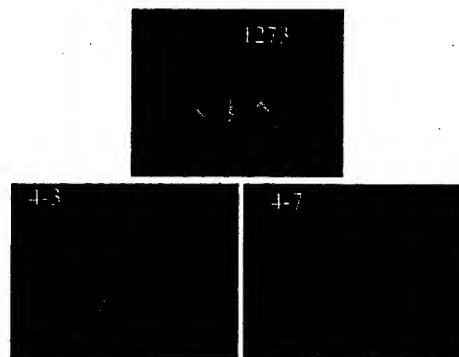
WNT5A TRANSFECTANTS-CHANGES IN CELL MORPHOLOGY

FIG. 7A



ACTIN STAINING OF WNT5A TRANSFECTANTS

FIG. 7B



BETA-CATENIN STAINING OF WNT5A TRANSFECTANTS

FIG. 8A

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PKC ACTIVITY

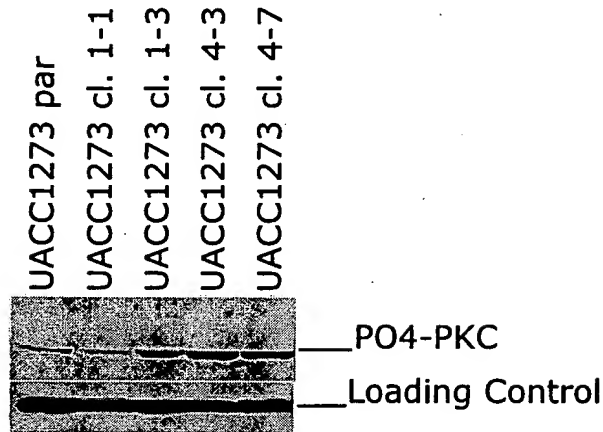
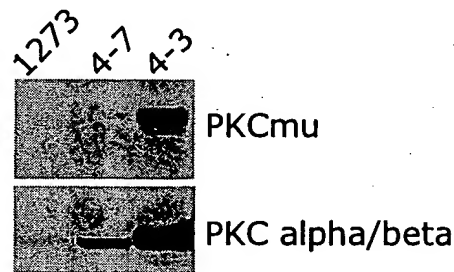


FIG. 8B



REPRESENTATIVE ACTIVITY OF PKC ISOFORMS

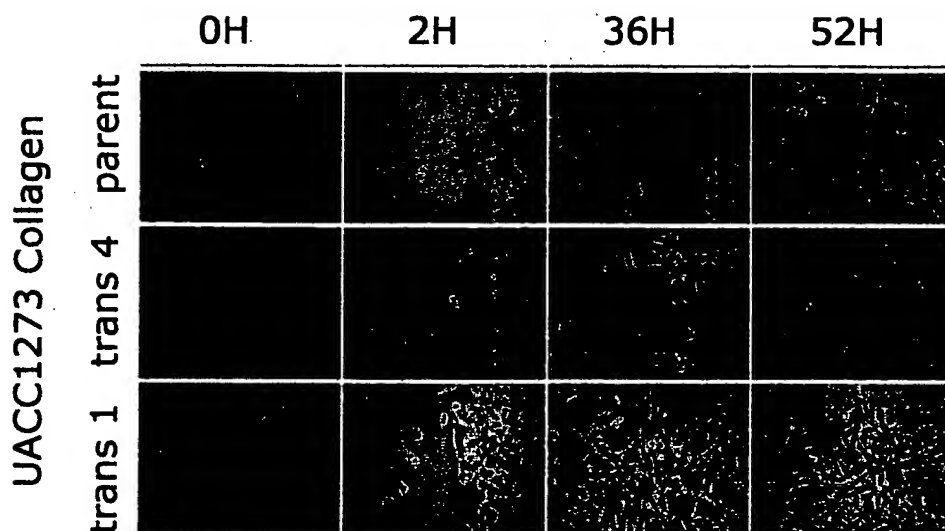
FIG. 8C

| | | | | | |
|----------------------------|-------------------------|-------------------------------|--------------------------------|-------------------------|---------------------------|
| 1273+ 4-3 +++ 4-7 ++ | 1273+ 4-3 + 4-7 + | 1273+/- 4-3 +/- 4-7 +/- | 1273- 4-3 +++ 4-7 +/- | 1273- 4-3 - 4-7 - | 1273+/- 4-3 + 4-7 + |
| Pkca/b11 | Pkc D | Pkc L | Pkc mu | Pkc theta | Pkc zeta |
| Migration/ motility | Proliferation | Proliferation | Cytoskeletal rearrangements | Differentiation | Apoptosis |

SUMMATION OF CHANGES IN PKC ISOFORM
ACTIVITY UPON WNT5A TRANSFECTION

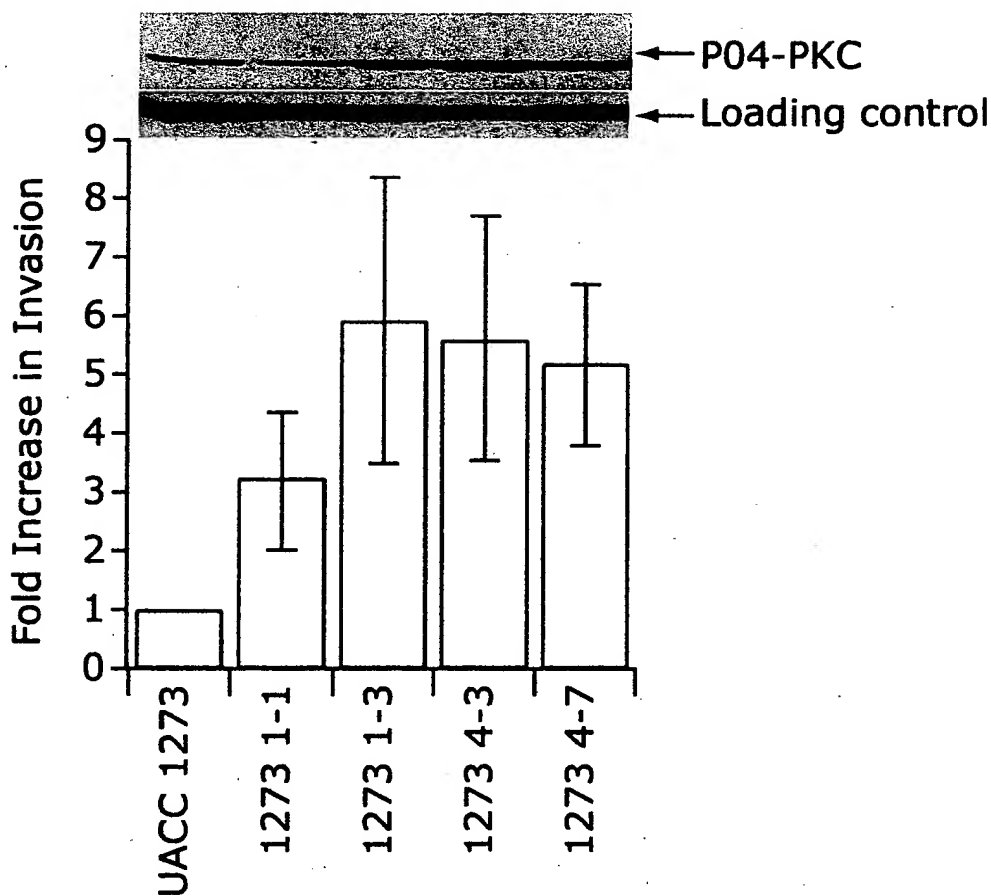
FIG. 8D

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SCRATCH ASSAY OF WNT5A EFFECTS ON INVASION

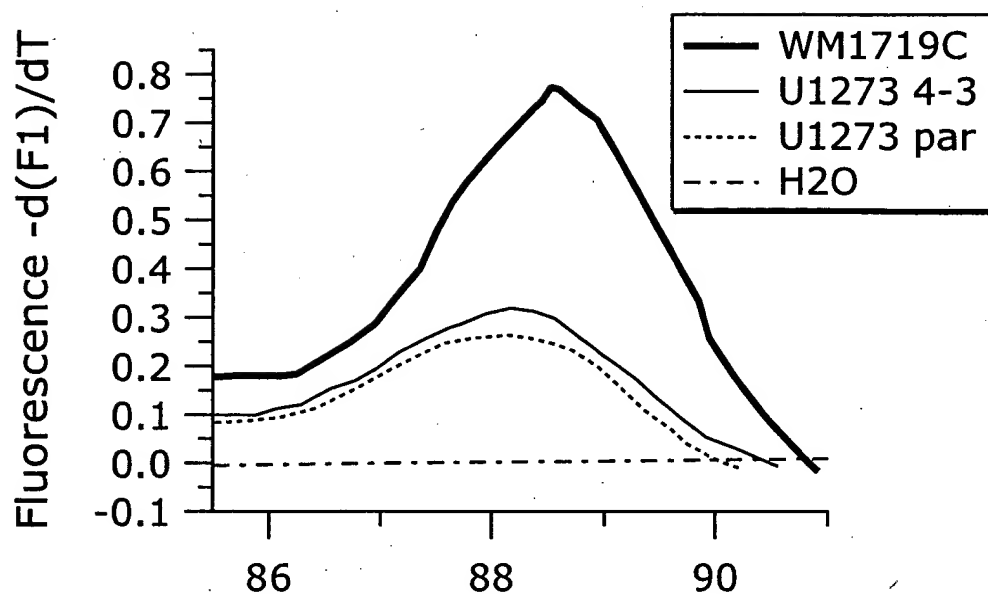
FIG. 9A



BOYDEN CHAMBER ASSAY OF WNT5A EFFECTS ON INVASION

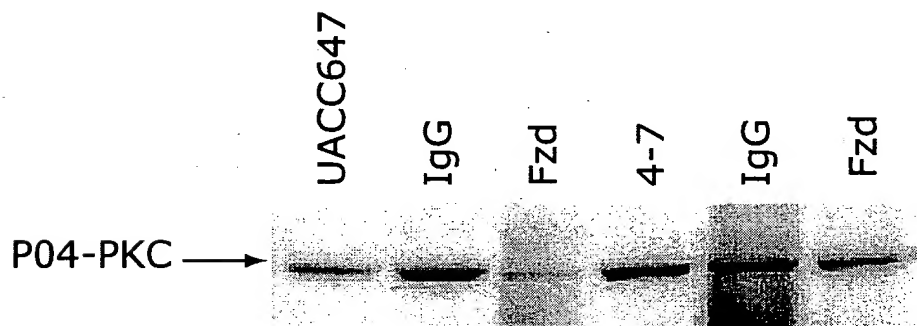
FIG. 9B

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FRIZZLED RECEPTOR EXPRESSION IN MELANOMA CELLS

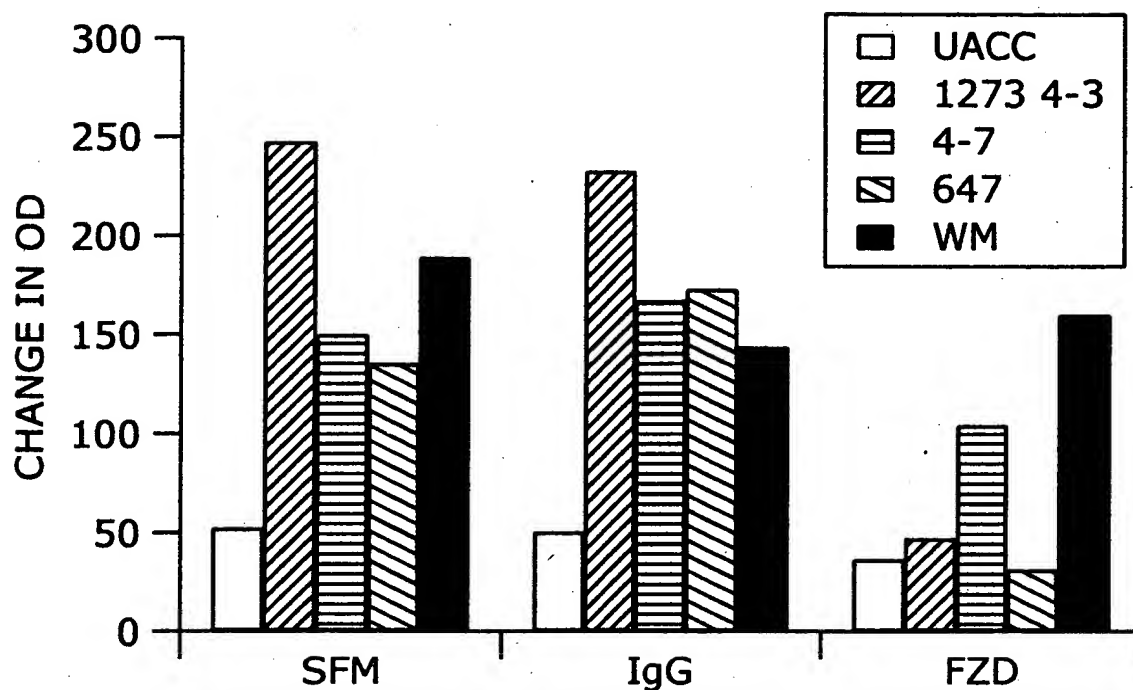
FIG. 10A



EFFECT OF FRIZZLED ANTIBODY ON PKC ACTIVITY

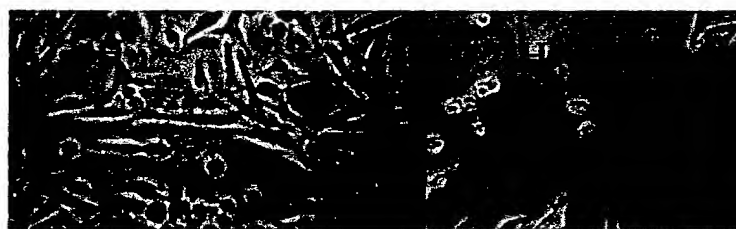
FIG. 10B

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INVASION OF FRIZZLED TREATED CELLS (16H)

FIG. 10C



4-3 IgG

4-3 Fzd

EFFECT OF FRIZZLED ANTIBODY ON
INVASION OF WNT5A TRANSFECTANTS

FIG. 10D